

SBFT 2023

Call for Submissions

About the Workshop

Search-Based and Fuzz Testing (SBFT) concerns the application of Fuzzing and Search-Based approaches. SBFT is used to solve problems in software testing. SBFT techniques are used to generate test data, prioritize test data, prioritize test cases, minimize test suites, optimize software test oracles, reduce human oracle cost, verify software models, test service-orientated architectures, construct test suites for interaction testing, and validate real-time properties (among others).

The objectives of this workshop are to bring together researchers and industrial practitioners both from SBFT and the wider software engineering community to collaborate, to share experience, to provide directions for future research, and to encourage the use of search techniques in novel aspects of software testing in combination with other aspects of the software engineering life-cycle.

Keynote Speakers

- Lionel Briand - University of Ottawa, Canada

Workshop Organizers

- Sebastiano Panichella, Program Co-Chair
(Zurich University of Applied Science, Zurich, Switzerland)
- Giovanni Guizzo, Program Co-Chair
(University College London, United Kingdom)
- Alessio Gambi, Program Co-Chair
(University of Passau, Germany)
- Vincenzo Riccio, Competition Co-Chair
(Università della Svizzera Italiana, Switzerland)
- Matteo Biagiola, Competition Co-Chair
(Università della Svizzera Italiana, Switzerland)
- Stefan Klikovits, Competition Co-Chair
(National Institute of Informatics, Tokyo, Japan)
- Jarkko Peltomäki, Competition Co-Chair
(Abo Akademi University)
- Gunel Jahangirova, Competition Co-Chair
(King's College London, United Kingdom)
- Valerio Terragni, Competition Co-Chair
(University of Auckland)
- Abhishek Arya, Competition Co-Chair
(Google, USA)
- Marcel Bohme, Competition Co-Chair
(Max Planck Institute for Security and Privacy, Germany)
- Rebecca Moussa, Webchair
(University College London, United Kingdom)

Important Dates

- Paper Submission Deadline: January 13, 2023
- Competition Report Deadline: February 21, 2023
- Main Track Author Notification: February 24, 2023
- Competition Author Notification: March 4, 2023
- Camera-Ready: March 17, 2023
- Date of Workshop: TBD

Call for Papers

Researchers and practitioners are invited to submit:

- **Full papers** (maximum of 8 pages, including references) Original research in SBFT, either empirical, theoretical, or showing practical experience of using SBFT techniques and/or tools.
- **Short papers** (maximum of 4 pages, including references) Work that describes novel techniques, ideas and positions that have yet to be fully developed; or are a discussion of the importance of a recently published SBFT result by another author in setting a direction for the SBFT community, and/or the potential applicability (or not) of the result in an industrial context.
- **Position papers** (maximum of 2 pages, including references) that analyze trends in SBFT and raise issues of importance. Position papers are intended to seed discussion and debate at the workshop, and thus will be reviewed with respect to relevance and their ability to spark discussions.
- **Tool Competition entries** (maximum of 4 pages, including references). We invite researchers, students, and tool developers to design innovative new approaches to software test generation.

In all cases, papers should address a problem in the software testing/verification/validation domain or combine elements of those domains with other concerns in the software engineering life-cycle. Examples of problems include (but are not limited to) generating testing data, fuzzing software, prioritizing test cases, constructing test oracles, minimizing test suites, verifying software models, testing service-orientated architectures, constructing test suites for interaction testing, SBFT for Artificial Intelligence (AI) applications, machine learning techniques for SBFT, security testing, and validating real-time properties.

Submission Format All submissions must conform to the ICSE 2023 formatting and submission instructions (<https://conf.researchr.org/track/icse-2023/icse-2023-workshops>). All submissions must be anonymized, in PDF format and should be performed electronically through EasyChair.

Workshop: <https://sbft23.github.io>

EasyChair: <https://easychair.org/conferences/?conf=sbft2023>

Tool Competition: <https://sbft23.github.io/tools>

Twitter: <https://twitter.com/sbftworkshop>